

Claims

1. An electrostatic discharge protection component comprising:

a ceramic insulating substrate,

a varistor unit composed of a varistor layer and an internal electrode, which are sintered and integrated on the ceramic insulating substrate, and

at least a pair of external electrodes provided on the varistor unit, and

wherein the varistor unit is formed with a varistor.

2. The electrostatic discharge protection component of Claim 1, wherein the external electrodes are provided to be sintered and integrated on the same surface of the varistor unit.

3. The electrostatic discharge protection component of Claim 1, wherein the ceramic insulating substrate is two or more times as thick as the varistor unit.

4. The electrostatic discharge protection component of Claim 1, wherein a material of the varistor layer contains zinc oxide as a main component and the ceramic insulating substrate is an alumina substrate containing copper oxide having a content of 0.1 % or less by weight ratio.

5. The electrostatic discharge protection component of Claim 1, wherein a protective film is formed on an upper surface of the varistor unit except a region, in which the external electrodes are formed.

6. The electrostatic discharge protection component of Claim 1, wherein the ceramic insulating substrate has a built-in inductor and the inductor is connected electrically to the varistor of the varistor unit.

7. The electrostatic discharge protection component of Claim 6, wherein the varistor comprises two varistors and a π shaped filter is constructed by the varistors and the inductor.

8. The electrostatic discharge protection component of Claim 6, wherein the varistor and the inductor are provided in plural to construct a multi-stage low-pass filter.